AMENDMENTS TO THE CLAIMS

1.   (Previously presented) A method of maintaining neighbor list information in a wireless communication system, comprising:

maintaining a separate neighbor list for each of a plurality of cells, said neighbor lists indicating neighbor cells and corresponding control channels;

maintaining a central link-list database identifying, for each of said plurality of cells, the neighbor cells and corresponding control channels;

receiving a neighbor modification command responsive to a change in a system architecture associated with said wireless communication system;

automatically identifying which of said neighbor lists should be modified as affected neighbor lists based on said central link-list database in response to said command;

automatically modifying a plurality of said affected neighbor lists in response to said command by performing at least one of the following:

automatically deleting at least one neighbor relation from each of said plurality of affected neighbor lists in response to said command;

automatically adding at least one neighbor relation to each of said plurality of the affected neighbor lists in response to said command; and

automatically changing at least one control channel identified in each of said plurality of affected neighbor lists in response to said command; and

automatically modifying said central link-list database in response to said command.

2.   (Original) The method of claim 1 wherein automatically modifying a plurality of said affected neighbor lists in response to said command comprises automatically deleting at least one control channel from each said affected neighbor list.

3.   (Original) The method of claim 2 wherein automatically deleting at least one control channel from each said affected neighbor list comprises automatically deleting at least one control channel from a neighbor channel sub-list of each said affected neighbor list..

4.   (Original) The method of claim 1 wherein automatically modifying a plurality of said affected neighbor lists in response to said command comprises automatically deleting at least one neighbor relation and at least one control channel from each said affected neighbor list.

5.   (Original) The method of claim 4 wherein automatically deleting at least one neighbor relation and at least one control channel from each said affected neighbor list comprises automatically deleting at least one control channel from a neighbor channel sub-list and automatically deleting at least one neighbor relation from a neighbor cell sub-list of each said affected neighbor list.

6.   (Original) The method of claim 1 wherein automatically modifying a plurality of said affected neighbor lists in response to said command comprises automatically updating at least one control channel in each said affected neighbor list.

7. (Original) The method of claim 6 wherein automatically updating at least one control channel from each said affected neighbor list comprises automatically deleting at least one control channel from a neighbor channel sub-list and automatically adding another control channel to said neighbor channel sub-list of each said affected neighbor list.

8. (Original) The method of claim 1 wherein automatically modifying a plurality of said affected neighbor lists in response to said command comprises automatically updating at least one neighbor relation and at least one control channel in each said affected neighbor list.

9. (Original) A method of maintaining neighbor list information in a wireless communication system, comprising:

> receiving a delete neighbor command identifying a first cell;
>
> automatically identifying a plurality of neighbor lists that should be modified in response to said command; and
>
> automatically deleting at least a neighbor relation to said first cell and at least one control channel identifier from a plurality of said identified neighbor lists in response to said command.

10. (Original) The method of claim 9 wherein automatically identifying a plurality of neighbor lists that should be modified in response to said command comprises automatically identifying a plurality of neighbor lists that should be modified in response to said command based on a central link-list database that identifies neighbor cells and corresponding control channels for a plurality of cells.

11. (Currently Amended) ~~The method of claim 9~~ <u>A method of maintaining neighbor list information in a wireless communication system, comprising:</u>

<u>receiving a delete neighbor command identifying a first cell;</u>

<u>automatically identifying a plurality of neighbor lists that should be modified in response to said command;</u>

<u>automatically deleting at least a neighbor relation to said first cell and at least one control channel identifier from a plurality of said identified neighbor lists in response to said command; and</u>

wherein automatically deleting at least a neighbor relation to said first cell and at least one control channel identifier from a plurality of said identified neighbor lists in response to said command comprises automatically deleting at least one control channel from a neighbor channel sub-list and automatically deleting at least the neighbor relation to said first cell from a neighbor cell sub-list of each said identified neighbor lists.

12. (Original) A method of maintaining neighbor list information in a wireless communication system, comprising:

receiving a change neighbor command identifying a first cell;

automatically identifying a plurality of neighbor lists that should be modified in response to said command; and

automatically changing a control channel identifier associated with said first cell in a plurality of said identified neighbor lists in response to said command.

13. (Original) The method of claim 12 wherein automatically identifying a plurality of neighbor lists that should be modified in response to said command comprises automatically identifying a plurality of neighbor lists that should be modified in response to said command based on a central link-list database that identifies neighbor cells and corresponding control channels for a plurality of cells.

14. (Currently Amended) ~~The method of claim 12~~ <u>A method of maintaining neighbor list information in a wireless communication system, comprising:</u>

> <u>receiving a change neighbor command identifying a first cell;</u>
>
> <u>automatically identifying a plurality of neighbor lists that should be modified in response to said command;</u>
>
> <u>automatically changing a control channel identifier associated with said first cell in a plurality of said identified neighbor lists in response to said command; and</u>
>
> wherein automatically changing a control channel identifier associated with said first cell in a plurality of said identified neighbor lists in response to said command comprises automatically deleting at least one control channel from a neighbor channel sub-list and automatically adding another control channel to said neighbor channel sub-list of each said identified neighbor lists.

15-19. (Canceled)

20.(Previously presented) The method of claim 1 wherein automatically modifying said central link-list database comprises performing at least one of the following:

automatically deleting at least one cell relationship from said central link-list database in response to said command;

automatically adding at least one cell relationship to said central link-list database in response to said command; and

automatically changing at least one control channel identified in said central link-list database in response to said command.